

Cal/Ecotox

Toxicity Data for Deer Mouse (*Peromyscus maniculatus*)*

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Chemical	Tox Exposure	Endpoint Type	Endpoint Description	Endpoint Value	Note	Reference
ALDICARB	0, 10, 10,000 ug/l	TOX-Non-Repro-Sublethal - behavioral effects	daily activity measured as time spend in burrow or moving in/out of burrow	no effect	a	1
ALDICARB	0, 10, 10,000 ug/l	TOX-Non-Repro-Sublethal - behavioral effects	food intake	no effect	b	1
ALDICARB	0, 10, 10,000 ug/l	TOX-Non-Repro-Sublethal - organ/system effects	growth rate estimated by changes in body weight	no effect	c	1
AMINOCARB	0, 175 g active ingredient/ha	TOX-Non-Repro-Sublethal - behavioral effects	mean activity level estimated by frequency of crossing sand transects	no effect	d	2
ARSENIC COMPOUNDS; CADMIUM COMPOUNDS; COPPER COMPOUNDS; LEAD COMPOUNDS; ZINC COMPOUNDS	Mining waste; Mean soil concentrations (n=8): Arsenic, 52.5 +/- 6.2; Cadmium, 7.8 +/- 0.7; Copper, 532.2 +/- 69.4; Lead, 65.7 +/- 6.4; Zinc, 1,908.9 +/- 392.9SE ug/g	TOX-EXP IND - accumulation	mean carcass concentration (ug/g wet wt.); mean deer mice body weight = 36.0 +/- 8.3SD, n=8	Arsenic, <0.02; Cadmium, 0.08; Copper, 3.4; Lead, <0.003; Zinc, 29.5 ug/g	e	3
AZINPHOS-METHYL (GUTHION)	0, 20, 25, 32, 40, 50, 63, 79 mg/kg body weight	TOX-MORT - toxicity benchmarks	LD50	48 mg/kg bw (95% CL: 39-74 mg/kg, slope = 2.57 +/- 0.73SE)	f	4
AZINPHOS-METHYL (GUTHION)	6 doses	TOX-MORT - toxicity benchmarks	LD50	1180 ppm diet (95% CL: 709-1485, slope = 1.88 +/- 0.57SE)	g	4
AZINPHOS-METHYL (GUTHION)	6 doses	TOX-MORT - toxicity benchmarks	LD50	2425 ppm diet (95% CL: 1856-3245, slope = 1.45 +/- 0.25SE)	h	4
AZINPHOS-METHYL (GUTHION)	0, 0.88, 3.61 kg/ha	TOX-POP - size effects	population density in enclosures with mowed alfalfa	decrease @ 3.61 kg/ha	i	5
CADMUM COMPOUNDS; COPPER COMPOUNDS; ZINC COMPOUNDS	Soil: 0.21 +/- 0.006 SD (Cd), 315.0 +/- 3.15SD (Cu), 80.6 +/- 10.4SD (Zn) mg/kg dry weight	TOX-EXP IND - accumulation	Ratio of metal concentrations (ug/g dry weight) in diet:soil, liver:soil and liver:diet at an abandoned mine site. Diet concentrations measured from stomach contents. Soil based on acid extractable concentrations. Soil copper; liver cadmium, copper and zinc; and diet copper concentrations were significantly elevated compared to reference site.	Diet:Soil; 128.0 (Cd), 1.31 (Cu), 1.87 (Zn). Liver:Soil; 35.3 (Cd), 0.17 (Cu), 1.25 (Zn). Liver:Diet; 0.27 (Cd), 0.12 (Cu), 0.66 (Zn).	j	6
CADMUM COMPOUNDS; LEAD COMPOUNDS; MERCURY COMPOUNDS; POLYCHLORINATED BIPHENYLS; SELENIUM COMPOUNDS	Range of tissue means (ppm, dry wt.): Liver; 0.05-1.08 (mercury), 2.32-3.53 (selenium). Kidney; 0.4-2.11 (cadmium), 0.6-1.92 (lead). Carcass; 0.02-0.22 (PCBs).	TOX-Non-Repro-Sublethal - cellular/biochemical effects	incidence of liver and kidney histopathologies was not related to contaminant concentrations	no effect	k	7
CHLOROCHOLINE CHLORIDE	0, 1, 10, 20, 40, 80 mg/kg bw/d	TOX-Non-Repro-Sublethal - cellular/biochemical effects	plaque forming cells/g spleen	increase @ 80 mg/kg bw/d	l	8
CHLOROCHOLINE CHLORIDE	0, 1, 10, 20, 40, 80 mg/kg bw/d	TOX-Non-Repro-Sublethal - cellular/biochemical effects	reciprocal of hemolysin titers (against sheep rbc)	decrease @ 80 mg/kg bw/d	m	8
CHLOROCHOLINE CHLORIDE	0, 1, 10, 20, 40, 80 mg/kg bw/d	TOX-Non-Repro-Sublethal - cellular/biochemical effects	white blood cell counts	increase @ 80 mg/kg bw/d	n	8
CHLOROCHOLINE CHLORIDE	0, 1, 10, 20, 40, 80 mg/kg bw/d	TOX-Non-Repro-Sublethal - organ/system effects	liver weight to bw ratio	increase @ 1, 20, 80 mg/kg bw/d	o	8
CHLOROCHOLINE CHLORIDE	0, 1, 10, 20, 40, 80 mg/kg bw/d	TOX-Non-Repro-Sublethal - organ/system effects	thymus weight to bw ratios	increase @ 1-80 mg/kg	p	8
CHLOROPHACINONE	0.00125, 0.0025, 0.005, 0.01, 0.02%	TOX-MORT - dose-response data		increase at 0.00125%	q	9

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CHLOROPHACINONE	0.00125, 0.0025, 0.005, 0.01, 0.02%	TOX-MORT - dose-response data		increase @ 0.00125-0.02%	r	9
DIBENZ[A]ANTHRACENE (1,2,5,6-)	NR	TOX-Non-Repro-Sublethal - cellular/biochemical effects	ED50 for ethoxyresorufin-O-dealkylase (EROD) activity	0.85 mg/kg/d	s	10
DIBENZ[A]ANTHRACENE (1,2,5,6-)	NR	TOX-Non-Repro-Sublethal - organ/system effects	ED50 for immunosuppression, measured as suppression of plaque forming cell response changes in population density; treated versus control site	0.048 mg/kg/d	t	10
DICHLOROPHENOXY-ACETIC ACID (2,4-)	0, 2-3 lbs/acre	TOX-POP - size effects		no effect	u	11
DICHLOROPHENOXY-ACETIC ACID (2,4-)	0, 2-3 lbs/acre	TOX-REPRO - reproductive success	mean litter size, based upon number of viable embryos or placental scars	no effect	v	11
DIELDRIN	0, 5 mg/kg	TOX-Non-Repro-Sublethal - behavioral effects	homing orientation test, measured as time in maze pointing to capture site	decrease at 5 mg/kg	w	12
DIELDRIN	0, 5 mg/kg	TOX-Non-Repro-Sublethal - behavioral effects	homing, measured as number recaptured at pre-exposure site	decrease at 5 mg/kg	x	12
DIELDRIN	Average soil dieldrin concentrations (ppb) at Reference (4.6 - 5.1 ppb) and Contaminated (72.8 - 636.7 ppb) sites	TOX-POP - size effects	population size at contaminated vs reference sites	increase	y	13
DIELDRIN	Average soil dieldrin concentrations (ppb) at Reference (4.6 - 5.1 ppb) and Contaminated (72.8 - 636.7 ppb) sites	TOX-REPRO - reproductive success	% of female deer mice exhibiting signs of reproduction increased as dieldrin levels increased at contaminated vs control sites	increase	z	13
DIMETHYLBENZ[A]ANTHRACENE (7,12-)	NR	TOX-Non-Repro-Sublethal - organ/system effects	ED50 for immunosuppression, measured as suppression of plaque forming cell response	0.026 mg/kg/d	aa	10
DIPHACINONE	0.00125, 0.0025, 0.005, 0.01, 0.02%	TOX-MORT - dose-response data		increase at 0.0025%	ab	9
DIPHACINONE	0.00125, 0.0025, 0.005, 0.01, 0.02%	TOX-MORT - dose-response data		increase @ 0.00125- 0.02%	ac	9
GLYPHOSATE	0, 3.0 kg/ha	TOX-MORT - mortality in the field	average duration of life during summer and winter periods	no effect	ad	14
GLYPHOSATE	2.2 kg/ha	TOX-MORT - mortality in the field	survival over summer and winter	increase	ae	15
GLYPHOSATE	0, 1, 10, 20, 40, 80 mg/kg bw/d	TOX-Non-Repro-Sublethal - cellular/biochemical effects	plaque forming cell count/g spleen	increase @ 80 mg/kg bw/d	af	8
GLYPHOSATE	0, 1, 10, 20, 40, 80 mg/kg bw/d	TOX-Non-Repro-Sublethal - cellular/biochemical effects	reciprocal of hemolysin titer (against sheep rbc)	no effect	ag	8
GLYPHOSATE	0, 1, 10, 20, 40, 80 mg/kg bw/d	TOX-Non-Repro-Sublethal - cellular/biochemical effects	white blood cell count	increase@ 80 mg/kg bw/d	ah	8
GLYPHOSATE	2.2 kg/ha	TOX-Non-Repro-Sublethal - indirect effects	number of hardwood trees in study area	decrease	ai	15
GLYPHOSATE	1.1-1.2 kg/ha application	TOX-Non-Repro-Sublethal - indirect effects	percent vegetation cover (vs control) in study area	decrease	aj	16
GLYPHOSATE	0, 1, 10, 20, 40, 80 mg/kg bw/d	TOX-Non-Repro-Sublethal - organ/system effects	liver weight to body weight ratio	increase @ 20, 80 mg/kg bw/d	ak	8
GLYPHOSATE	0, 1, 10, 20, 40, 80 mg/kg bw/d	TOX-Non-Repro-Sublethal - organ/system effects	thymus weight to bw ratio	increased @ 1-80 mg/kg	al	8
GLYPHOSATE	0, 3.0 kg active ingredient /ha	TOX-Non-Repro-Sublethal - whole animal	body weight	no effect	am	17

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GLYPHOSATE	1.1-1.2 kg/ha application	TOX-POP - age distribution effects	age structure as indicated by number of juveniles trapped	no effect	an	16
GLYPHOSATE	1.1-1.2 kg/ha application	TOX-POP - size effects	adult sex ratios	no effect	ao	16
GLYPHOSATE	2.2 kg/ha	TOX-POP - size effects	population density (decreases)	no effect	ap	18
GLYPHOSATE	0, 3.0 kg/ha	TOX-POP - size effects	population density, compared to control site	no effect	aq	14
GLYPHOSATE	0, 3.0 kg active ingredient /ha	TOX-POP - size effects	recruitment measured as number of new animals that entered the population through reproduction or immigration in treated and control areas	no effect	ar	17
GLYPHOSATE	1.1-1.2 kg/ha application	TOX-POP - size effects	relative density (vs. control) in sprayed area	0.29	as	16
GLYPHOSATE	0, 3.0 kg active ingredient /ha	TOX-REPRO - development	growth rate, estimated by changes in body weight	no effect	at	17
GLYPHOSATE	0, 3.0 kg/ha	TOX-REPRO - physiology	% of trapped males and females in breeding condition, compared to control site	increase	au	14
GLYPHOSATE	2.2 kg/ha	TOX-REPRO - physiology	juvenile growth rate (summer and fall)	no effect	av	15
GLYPHOSATE	2.2 kg/ha	TOX-REPRO - physiology	proportion of trapped animals in breeding condition	no effect	aw	15
GLYPHOSATE	1.1-1.2 kg/ha application	TOX-REPRO - reproductive success	mean number of foeti in trapped females	increase	ax	16
LEAD ACETATE	0, 0.1, 0.5, 1.0%	TOX-Non-Repro-Sublethal - cellular/biochemical effects	incidence of acid-fast staining intranuclear inclusion bodies within kidney proximal convoluted tubule cells	increase at 0.5 and 1% diet	ay	19
LEAD ACETATE	0, 0.1, 0.5, 1.0%	TOX-REPRO - development	incidence of congenital malformations	no effect	az	19
LEAD ACETATE	0, 0.1, 0.5, 1.0%	TOX-REPRO - reproductive success	litter mortality	no effect	ba	19
LEAD COMPOUNDS	mean surface soil; 73.0 +/- 19.9SD ppm, dry weight	TOX-EXP IND - accumulation	Mean concentrations in deer mice from roadside site (ppm, dry weight). Feces collected from nest box after 1 yr accumulation. Roadside tissue concentrations significantly different from control site.	Bone; 52.10 +/- 33.81SD, Kidney; 8.46 +/- 3.03SE, Liver; 3.29 +/- 1.77SD, Brain; 0.84 +/- 0.25SE, Feces; 153.6 +/- 103.5SD ppm (dry weight)	bb	19
LEAD COMPOUNDS	mean surface soil; 73.0 +/- 19.9SD ppm, dry weight	TOX-MORT - mortality in the field	mortality during winter, estimated by number of mice recaptured the following breeding season at a control and roadside site	significant increase	bc	19
LEAD COMPOUNDS	mean surface soil; 73.0 +/- 19.9SD ppm, dry weight	TOX-REPRO - reproductive success	number of litters per 100 breeding females, measured by observing litters in nesting boxes at a control and roadside site	no effect	bd	19
MALATHION	control or 0.585 liters/acre	TOX-POP - size effects	population size in sprayed areas, compared to control areas	no effect	be	20
MERCURY COMPOUNDS	Mean hair concentration; 10.8 +/- 2.0 ppm	TOX-Non-Repro-Sublethal - behavioral effects	decreased swimming ability, increased time for mouse to leave circle in center of field, decreased number of lines crossed and increased number of backward movements compared to a reference site	increase and decrease	bf	21

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Chemical	Tox Exposure	Endpoint Type	Endpoint Description	Endpoint Value	Note	Reference
METHIOCARB	0, 0.03, 0.125, 0.5% active ingredient by weight of corn seed	TOX-Non-Repro-Sublethal - behavioral effects	suppression of feeding on treated corn	effect @ 0.03-0.5%	bg	22
METHYLCHLORANTHRENE (3-)	NR	TOX-Non-Repro-Sublethal - cellular/biochemical effects	ED50 for ethoxyresorufin-O-dealkylase (EROD) activity	1.24 mg/kg/d	bh	10
METHYLCHLORANTHRENE (3-)	NR	TOX-Non-Repro-Sublethal - organ/system effects	ED50 for immunosuppression, measured as suppression of plaque forming cell response whole animal dose estimated with implanted dosimeters	0.14 mg/kg/d	bi	10
RADIONUCLIDES	Air: 10 - 2000 mroetgen/d	TOX-EXP IND - accumulation		160 +/- 162SE mrem/d; range = 7-982 mrem/d	bj	23
TERBUFOS	0, 0.92, 1.69 and 2.48 g active ingredient/kg	TOX-MORT - dose-response data		increase @ 1.69 and 2.48 mg/kg	bk	24
TERBUFOS	0, 0.92, 1.69 and 2.48 g active ingredient/kg	TOX-Non-Repro-Sublethal - behavioral effects	incidence of tremors and rapid breathing	increase @ 1.69 and 2.48 mg/kg	bl	24
TERBUFOS	0, 0.92, 1.69 and 2.48 g active ingredient/kg	TOX-Non-Repro-Sublethal - cellular/biochemical effects	brain cholinesterase activity	decrease at 1.69 and 2.48 mg/kg	bm	24
THIRAM	0, 0.31, 1.25% active ingredient by weight of corn seed	TOX-Non-Repro-Sublethal - behavioral effects	suppression of feeding on treated corn	effect at 0.03-0.5%	bn	22

Notes

- a Lab; F; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=116-06-3; N=8 animals/dose; Age=29 - 32 d; Tox Exp Tech=drinking water; Tox Exp Dur=44 d; Tox Study Dur=44 d; Tox Stat Sig=N
- b Lab; F; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=116-06-3; N=8 animals/dose; Age=29 - 32 d; Tox Exp Tech=drinking water; Tox Exp Dur=44 d; Tox Study Dur=44 d; Tox Stat Sig=N; see citation for influence of temperature on food intake
- c Lab; F; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=116-06-3; N=8 animals/dose; Age=29 - 32 d; Tox Exp Tech=drinking water; Tox Exp Dur=44 d; Tox Study Dur=44 d; Tox Stat Sig=N
- d NR; CANADA; NR; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=2032-59-9; N=NR; June; southwestern Quebec [lat., 46°N; long., 74°W]; Tox Exp Tech=field application; Tox Exp Dur=single; Tox Study Dur=10 d pre & post-spray; Tox Stat Sig=N
- e NR; MT; NR; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=ARSENIC COMPOUNDS; TOX - Chemical=CADMIUM COMPOUNDS; TOX - Chemical=COPPER COMPOUNDS; TOX - Chemical=LEAD COMPOUNDS; TOX - Chemical=ZINC COMPOUNDS; N=8 animals; Milltown Reservoir, Missoula; Tox Exp Tech=site contamination; Tox Exp Dur=NR; Tox Study Dur=NR; Tox Stat Sig=NR; see citation for trophic transfer assessment and further metal concentrations in water, soil, vegetation and organs
- f Adult; Lab; M; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=86-50-0; TOX - Dose-Response Data Format=DR Table; N=5-7 animals/dose; Tox Exp Tech=gavage; Tox Exp Dur=single; Tox Study Dur=24 hr; Tox Stat Sig=NR
- g Adult; Lab; B; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=86-50-0; N=10 animals/dose; Tox Exp Tech=diet; Tox Exp Dur=10 d; Tox Study Dur=10 d; Tox Stat Sig=NR; initial mean body weight: 20.2 g +/- 3.32SD, control animal consumption rate = 2.7 +/- 0.53 SD g diet/animal/d
- h Adult; Lab; B; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=86-50-0; N=10 animals/dose; Tox Exp Tech=diet; Tox Exp Dur=5 d; Tox Study Dur=5 d; Tox Stat Sig=NR; initial mean body weight: 20.2 g +/- 3.32SD, control animal consumption rate = 2.7 +/- 0.53 SD g diet/animal/d
- i Both Adult and Juv.; OR; B; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=86-50-0; N=0-30 animals/enclosure; 4 enclosures/dose; Mar. - Aug.; Hyslop Crop Science Field Laboratory, Corvallis; Tox Exp Tech=field application; Tox Exp Dur=single; Tox Study Dur=5 d; Tox Stat Sig=yes; see citation for influence of vegetation
- j Adult; CANADA; B; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=CADMIUM COMPOUNDS; TOX - Chemical=COPPER COMPOUNDS; TOX - Chemical=ZINC COMPOUNDS; N=6-9 soil or tissue samples/site; May - June; Blue Grouse Mountain Copper Mine, Honeymoon Bay, Vancouver Island, British Columbia; Tox Exp Tech=site contamination; Tox Exp Dur=NR; Tox Study Dur=NR; Tox Stat Sig=Y; Mean mice body weight = 23.0 +/- 4.5SD g
- k NR; CA; NR; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=CADMIUM COMPOUNDS; TOX - Chemical=LEAD COMPOUNDS; TOX - Chemical=MERCURY COMPOUNDS; TOX - Chemical=1336-36-3; TOX - Chemical=SELENIUM COMPOUNDS; N=26 animals; July; salt marsh, San Pablo and San Francisco Bays; Tox Exp Tech=site contamination; Tox Exp Dur=NR; Tox Study Dur=NR; Tox Stat Sig=N; see citation for site differences in tissue contaminant concentrations
- l Adult; Lab; F; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=999-81-5; TOX - Dose-Response Data Format=DR Table; N=12/dose; Tox Exp Tech=Diet; Tox Exp Dur=28 d; Tox Study Dur=28 d; Tox Stat Sig=Y
- m Adult; Lab; F; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=999-81-5; TOX - Dose-Response Data Format=DR Table; N=12/dose; Tox Exp Tech=Diet; Tox Exp Dur=28 d; Tox Study Dur=28 d; Tox Stat Sig=Y
- n Adult; Lab; F; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=999-81-5; TOX - Dose-Response Data Format=DR Table; N=12/dose; Tox Exp Tech=Diet; Tox Exp Dur=28 d; Tox Study Dur=28 d; Tox Stat Sig=Y
- o Adult; Lab; F; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=999-81-5; TOX - Dose-Response Data Format=DR Table; N=12/dose; Tox Exp Tech=diet; Tox Exp Dur=28 d; Tox Study Dur=28 d; Tox Stat Sig=Y
- p Adult; Lab; F; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=999-81-5; TOX - Dose-Response Data Format=DR Table; N=12/dose; Tox Exp Tech=Diet; Tox Exp Dur=28 d; Tox Study Dur=28 d; Tox Stat Sig=Y
- q NR; Lab; B; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=3691-35-8; N=10 animals/dose; Tox Exp Tech=diet; Tox Exp Dur=2 d; Tox Study Dur=21 d; Tox Stat Sig=NR
- r NR; Lab; B; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=3691-35-8; N=10 animals/dose; Tox Exp Tech=diet; Tox Exp Dur=4 d; Tox Study Dur=21 d; Tox Stat Sig=NR

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s Juvenile; Lab; M; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=53-70-3; N=NR; Age=7 - 8 wk; Tox Exp Tech=intraperitoneal; Tox Exp Dur=1, 3, 5, 7, 9 d; Tox Study Dur=11 d; Tox Stat Sig=NR; see citation for field data on EROD
t Juvenile; Lab; M; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=53-70-3; N=NR; Age=7 - 8 wk; Tox Exp Tech=intraperitoneal; Tox Exp Dur=1, 3, 5, 7, 9 d; Tox Study Dur=11 d; Tox Stat Sig=NR
u Both Adult and Juv.; CO; NR; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=94-75-7; N=6 study areas/dose; Gunnison County and Saquache County, (elev., 8500 - 9300 ft.); Tox Exp Tech=field application; Tox Exp Dur=single; Tox Study Dur=1 - 3 yr; Tox Stat Sig=no
v Adult; CO; F; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=94-75-7; N=66-77 animals; Gunnison County and Saquache County, (elev., 8500 - 9300 ft.); Tox Exp Tech=field application; Tox Exp Dur=single; Tox Study Dur=1 - 3 yr; Tox Stat Sig=no
w Both Adult and Juv.; UT; B; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=60-57-1; N=15 animals/dose; July; NR; Tox Exp Tech=intraperitoneal; Tox Exp Dur=single; Tox Study Dur=4 hr; Tox Stat Sig=NR
x Both Adult and Juv.; UT; B; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=60-57-1; N=15 animals/dose; July; NR; Tox Exp Tech=intraperitoneal; Tox Exp Dur=single; Tox Study Dur=8 d; Tox Stat Sig=NR
y Both Adult and Juv.; CO; B; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=60-57-1; N=NR; Mar., June, Aug., Oct.; Rocky Mountain Arsenal National Wildlife Refuge; Tox Exp Tech=site contamination; Tox Exp Dur=NR; Tox Study Dur= 2 yr; Tox Stat Sig=Y; see citation for figure of population size changes over time at the various sites
z Adult; CO; F; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=60-57-1; N=NR; Mar., June, Aug., Oct.; Rocky Mountain Arsenal National Wildlife Refuge; Tox Exp Tech=site contamination; Tox Exp Dur=NR; Tox Study Dur= 2 yr; Tox Stat Sig=Y; see citation for figure of relationship between % reproductively active vs dielrdrin soil concentrations
aa Juvenile; Lab; M; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=57-97-6; N=NR; Age=7 - 8 wk; Tox Exp Tech=intraperitoneal; Tox Exp Dur=1, 3, 5, 7, 9 d; Tox Study Dur=11 d; Tox Stat Sig=NR
ab NR; Lab; B; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=82-66-6; N=10 animals/dose; Tox Exp Tech=diet; Tox Exp Dur=2 d; Tox Study Dur=21 d; Tox Stat Sig=NR
ac NR; Lab; B; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=82-66-6; N=10 animals/dose; Tox Exp Tech=diet; Tox Exp Dur=4 d; Tox Study Dur=21 d; Tox Stat Sig=NR
ad Adult; CANADA; B; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=1071-83-6; N=2 - 40 animals; Maple Ridge, British Columbia; Tox Exp Tech=field application; Tox Exp Dur=up to 4 yr; Tox Study Dur=4 yr; Tox Stat Sig=NR
ae Both Adult and Juv.; CANADA; B; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=1071-83-6; N=545; Maple Ridge, BC; Tox Exp Tech=field application; Tox Exp Dur=NR; Tox Study Dur=2.5 yr; Tox Stat Sig=Y
af Adult; Lab; F; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=1071-83-6; TOX - Dose-Response Data Format=DR Table; N=12/dose; Tox Exp Tech=Diet; Tox Exp Dur=28 d; Tox Study Dur=28 d; Tox Stat Sig=Y
ag Adult; Lab; F; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=1071-83-6; TOX - Dose-Response Data Format=DR Table; N=12/dose; Tox Exp Tech=Diet; Tox Exp Dur=28 d; Tox Study Dur=28 d; Tox Stat Sig=N
ah Adult; Lab; F; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=1071-83-6; TOX - Dose-Response Data Format=DR Table; N=12/dose; Tox Exp Tech=Diet; Tox Exp Dur=28 d; Tox Study Dur=28 d; Tox Stat Sig=Y
ai Both Adult and Juv.; CANADA; B; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=1071-83-6; N=1 study area; Maple Ridge, BC; Tox Exp Tech=field application; Tox Exp Dur=NR; Tox Study Dur=2.5 yr; Tox Stat Sig=NR
aj Both Adult and Juv.; CANADA; B; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=1071-83-6; N=285; Vancouver Island; Tox Exp Tech=field application; Tox Study Dur=12 d; Tox Stat Sig=Y
ak Adult; Lab; F; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=1071-83-6; TOX - Dose-Response Data Format=DR Table; N=12/dose; Tox Exp Tech=Diet; Tox Exp Dur=28 d; Tox Study Dur=28 d; Tox Stat Sig=Y
al Adult; Lab; F; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=1071-83-6; TOX - Dose-Response Data Format=DR Table; N=12/dose; Tox Exp Tech=Diet; Tox Exp Dur=28 d; Tox Study Dur=28 d; Tox Stat Sig=Y
am Both Adult and Juv.; CANADA; B; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=1071-83-6; N=67 - 138 animals; University of British Columbia Research Forest, Maple Ridge, British Columbia; Tox Exp Tech=field application; Tox Exp Dur=single; Tox Study Dur=1 mo - 1 yr post-spray; Tox Stat Sig=N
an Both Adult and Juv.; CANADA; B; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=1071-83-6; N=285; Vancouver Island; Tox Exp Tech=field application; Tox Study Dur=12 d; Tox Stat Sig=N
ao Both Adult and Juv.; CANADA; B; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=1071-83-6; N=285; Vancouver Island; Tox Exp Tech=field application; Tox Study Dur=12 d; Tox Stat Sig=N
ap Both Adult and Juv.; CANADA; B; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=1071-83-6; N=NR; University of British Columbia Research Forest, Maple Ridge, British Columbia; Tox Exp Tech=field application; Tox Exp Dur=single; Tox Study Dur=1 yr; Tox Stat Sig=NR; see citation for graphical representation of temporal changes in population density
aq Both Adult and Juv.; CANADA; B; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=1071-83-6; N=13 trapping periods; Apr. - Sept.; Maple Ridge, British Columbia; Tox Exp Tech=field application; Tox Exp Dur=up to 4 yr; Tox Study Dur=4 yr; Tox Stat Sig=NR
ar Both Adult and Juv.; CANADA; B; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=1071-83-6; N=NR; ; University of British Columbia Research Forest, Maple Ridge, British Columbia; Tox Exp Tech=field application; Tox Exp Dur=single; Tox Study Dur=1 mo - 1 yr post-spray; Tox Stat Sig=N
as Both Adult and Juv.; CANADA; B; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=1071-83-6; N=285; Vancouver Island; Tox Exp Tech=field application; Tox Study Dur=12 d; Tox Stat Sig=NR; Relative density in unsprayed clearcut area = 0.53
at Juvenile; CANADA; B; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=1071-83-6; N=23 - 55; University of British Columbia Research Forest, Maple Ridge, British Columbia; Tox Exp Tech=field application; Tox Exp Dur=single; Tox Study Dur=1 mo - 1 yr post-spray; Tox Stat Sig=N
au Adult; CANADA; B; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=1071-83-6; N=24 - 62 animals; Apr. - Sept.; Maple Ridge, British Columbia; Tox Exp Tech=field application; Tox Exp Dur=up to 4 yr; Tox Study Dur=1 yr post spray; Tox Stat Sig=Y
av Both Adult and Juv.; CANADA; B; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=1071-83-6; N=283; Maple Ridge, BC; Tox Exp Tech=field application; Tox Exp Dur=NR; Tox Study Dur=2.5 yr; Tox Stat Sig=N
aw Both Adult and Juv.; CANADA; B; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=1071-83-6; N=151; Maple Ridge, BC; Tox Exp Tech=field application; Tox Exp Dur=NR; Tox Study Dur=2.5 yr; Tox Stat Sig=N
ax Both Adult and Juv.; CANADA; B; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=1071-83-6; N=285; Vancouver Island; Tox Exp Tech=field application; Tox Study Dur=12 d; Tox Stat Sig=Y
ay Adult; Lab; B; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=301-04-2; N=5 breeding pairs/dose; Age=2-3 mo; Tox Exp Tech=diet; Tox Exp Dur=26 wk; Tox Study Dur=26 wk; Tox Stat Sig=NR; see citation for figure illustrating bone lead to dietary lead relationship
az Juvenile; Lab; B; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=301-04-2; N=5 breeding pairs/dose; Age=2-3 mo; Tox Exp Tech=diet; Tox Exp Dur=26 wk; Tox Study Dur=26 wk; Tox Stat Sig=NR
ba Adult; Lab; B; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=301-04-2; N=5 breeding pairs; Age=2-3 mo; Tox Exp Tech=diet; Tox Exp Dur=26 wk; Tox Study Dur=26 wk; Tox Stat Sig=NR
bb Adult; CO; B; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=LEAD COMPOUNDS; N=9 - 10 animals; Interstate 25, Denver (elev. 1884-2018 m); Tox Exp Tech=multiple; Tox Exp Dur=NR; Tox Study Dur=NR; Tox Stat Sig=Y
bc Adult; CO; B; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=LEAD COMPOUNDS; N=98 - 180 tagged animals; Interstate 25, Denver (elev. 1884-2018 m); Tox Exp Tech=multiple; Tox Exp Dur=NR; Tox Study Dur=NR; Tox Stat Sig=Y; see accumulation dataset for tissue concentrations

Toxicity Data for Deer Mouse (*Peromyscus maniculatus*)*

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- bd Adult; CO; F; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=LEAD COMPOUNDS; N=50 nesting boxes, 66 observation periods nimals; Interstate 25, Denver (elev. 1884-2018 m); Tox Exp Tech=multiple; Tox Exp Dur=NR; Tox Study Dur=NR; Tox Stat Sig=N; see accumulation dataset for tissue concentrations
- be NR; NE; NR; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=121-75-5; N=NR; Aug. - Oct.; Lexington, Dawson County; Tox Exp Tech=field application; Tox Exp Dur=single application; Tox Study Dur=1-2 mo post-application; Tox Stat Sig=NR
- bf Adult; UT; M; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=MERCURY COMPOUNDS; N=7 - 14 animals; Bird Island, Great Salt Lake; Tox Exp Tech=site contamination; Tox Exp Dur=NR; Tox Study Dur=NR; Tox Stat Sig=Y; see citation for relationship between hair mercury levels and behavior test performance
- bg NR; Lab; B; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=2032-65-7; N=10 - 12 animals/dose; Tox Exp Tech=diet; Tox Exp Dur=1 - 6 d; Tox Study Dur=1 - 6 d; Tox Stat Sig=Y
- bh Juvenile; Lab; M; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=56-49-5; N=NR; Age=7 - 8 wk; Tox Exp Tech=intrapерitoneal; Tox Exp Dur=1, 3, 5, 7, 9 d; Tox Study Dur=11 d; Tox Stat Sig=NR; see citation for field data on EROD
- bi Juvenile; Lab; M; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=56-49-5; N=NR; Age=7 - 8 wk; Tox Exp Tech=intrapерitoneal; Tox Exp Dur=1, 3, 5, 7, 9 d; Tox Study Dur=11 d; Tox Stat Sig=NR
- bj NR; ID; NR; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=RADIOMUCLIDES; N=70 animals; test reactor area, Idaho National Engineering Lab; Tox Exp Tech=site contamination; Tox Exp Dur=NR; Tox Study Dur=2 - 35 d; Tox Stat Sig=NR; see citation for whole body radionuclide concentrations; exposure estimated at 0.5 cm above ground surface
- bk NR; Lab; B; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=013071-79-9; N=70 animals/dose; Tox Exp Tech=gavage; Tox Exp Dur=single; Tox Study Dur=96 hr; Tox Stat Sig=NR
- bl NR; Lab; B; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=013071-79-9; N=70 animals/dose; Tox Exp Tech=gavage; Tox Exp Dur=single; Tox Study Dur=24 hr; Tox Stat Sig=NR
- bm NR; Lab; B; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=013071-79-9; N=70 animals/dose; Tox Exp Tech=gavage; Tox Exp Dur=single; Tox Study Dur=2 - 48 hr; Tox Stat Sig=N
- bn NR; Lab; B; Species - California (R)=*Peromyscus maniculatus*; TOX - Chemical=137-26-8; N=10 - 12 animals/dose; Tox Exp Tech=diet; Tox Exp Dur=1 - 6 d; Tox Study Dur=1 - 6 d; Tox Stat Sig=Y

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